11/26/2018

Supplier Name	\$31.50 Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.
Total	\$31.50	\$488.52	\$98.78	\$371.45
Past Due				
Aging P	6	13	5	6
Price/Unit Aging Past	\$ 1.58 / ft	\$ 20.36 / ft	\$4.12/ft	\$ 10.32 / ft
Receive Date	11/13/2018 \$ 1.58 / ft	11/13/2018 \$ 20.36 / ft	11/13/2018 \$ 4.12 / ft	11/13/2018 \$ 10.32 / ft
Status	Stock	Stock	Stock	Stock
Container	S127976	\$127977	\$127978	\$127979
Received Accounting Container Status Quantity Job No No				
Received Quantity	50	24	42	98
Due Date	11/15/2018			
Order	50	24		98
Part Project Equipment Order No				
roject				
Part				
Description	6061T6 Bar .375 X 1.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-4225/8 OR AMS-QQ- A-225/8 OR AMS-QQ- A-200/8 OR AMS-QQ- A-200/8 OR AMS-QQ- A-200/8 OR ASTM B211 OR ASTM B221 receive ft	M6061T6B0.750X06.000 6061T6 Bar .750 X 6.00: MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS-QQ- A-225/8 OR AMS-QQ- A-200/8 OR AMS-QQ- A-200/8 OR AMS-QQ- A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B211 OR ASTM B211 OR	6061T6 Bar 1,000 X 1,000 : MATERIAL: 6061- T677551/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS-QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS-QQ-A-200/8 OR ASTM B211 OR ASTM B221 receive ft ASTM B221 receive ft	M6061T6B2.000X01.256 G061-T6 Bar 2.00 X 1.25 : MATERIAL: 6061- TCREST/TRESTO/T6S11/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS-QQ- A-225/8 OR AMS-QQ- A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 receive ft ASTM B221 receive ft
Purchased Item	M6061T6B0.375X1.000	M6061T6B0.750X06.000	M6061T6B1,000X1.000	46061T6B2.000X01.250
Terms	Net 30			
No No	m	4	2	9
Supplier Item No				
PO No S	P0041674 ACI001-VC			

11/26/2018

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Supplier Name	\$120.60 Acier Ouellette Inc.	s Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.
Total	\$120.60	\$187.86	\$16.17	\$478.20	\$518.83	\$15.17
Past						
Aging	67	6	62	5	13	13
Price/Unit	\$ 3.02 / ft	\$4.70/#	\$ 0.81 / ft	\$ 29.89 / sf	\$ 12.65 / ft	1.26 / ft
Receive Date	11/13/2018	11/13/2018	11/13/2018	11/13/2018 \$	11/13/2018 \$	11/13/2018 \$ 1.26 / ft
Status	Stock	Stock	Stock	Stock 1	Stock	Stock 1
Container	S127980	\$127981	\$127982	\$127983	\$127985	\$127986
Received Accounting Container Quantity Job No No				0.	o	0
Received	40	40	50	16	4	15
Date						
Order	40		50	9	14	27
Equipment Order ID Qty						
Part Project No						
Part						
Description	Round Bar 1,00":: MATERIAL: 6061- Tof/T651/T6510/T651/T62 ALUMINUM ROUND BAR AS PER GQ-A-225/8 OR AMS-0Q-A-225/8 OR AMS-1177 A128/4115/416 OR QQ- A4-220/8 OR AMS-0Q-A- Z008 OR AMS-160 OR ASTIM BZZ1 OR ASTM BZZ1 receive ft	6061-T6 Round Bar 1,250 : MATERIAL: 6061- T6/T6511/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QG-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QG- 44128/4115/4116 OR QG- 200/8 OR AMS 4160 OR ASTIM BZZ1 OR ASTIM BZZ1 receive ft.	6061-T6 Round Bar .500*** : MATERIAL: 6061- T677651/T6510T05511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS-QQ-A-226/8 OR AMS-QQ-A-20/8 OR AMS-QQ-A-20/8 OR AMS-4160 OR ASTM B221 OR ASTM B221 receive ft	6061-T6 0.500 Sheet: MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	304 Round Bar 1.00: MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	304 Round Bar 0.375: MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM AZ76 NOTE: AISI 303 NOT ACCEPTABLE
Purchased Item	M6061T6R1.000	M6061T6R1.250	M6061T6R0.500	M6061T6S.500	M304R1.000	M304R0.375 3
Terms	-		2	2	Σ	W
No	_	80				
Supplier Item No			o,	12	13	4
PO No Si						

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Supplier Name	Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.	
Total	\$84.23 Acier Ouell Inc.	\$264.37 Acier Ouell Inc.	\$497.20 Acier Ouell Inc.	\$2,403.13
Past				69
Aging Days	=	-	13	
Price/Unit	\$4.21 / ft	8 73.85 / n	15.54 / sf	
Receive Date	11/15/2018 \$ 4.21 / ft	Stock 11/15/2018 \$ 73.85 / ft	11/13/2018 \$ 15.54 / sf	
Status	Stock	Stock	Stock	
Container	S128382	S128383	\$127984	
Received Accounting Container Status Receive Price/Unit Aging Past Quantity Job No No No Date				
Received /	20	4	32	329
Due Date				
Order	50	4	32	329
Project Equipment Order ID Qty				Total:
Project				
For Part No				
Description	AISI 4140 Quenched & Tempered Steel Round Bar 0.875" Dia.: AISI 4140 Q&T Round Bar: MATL: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	AISI 4140 Quenched & Tempered Steel Round Bar 4.500" Dia.: MATERAL. AISI 4140 QUENCHED & TEMPERED STEEL ROUND BAR SPECIFICATION: ASTM 4140 QT or ASTM 4142 QT	304/316 0.125 Sheet: MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240	
Purchased Item	MT-4140QT-R0.875	Mi-4140QT-R4.500	M304S11GA	
Terms				
Rel				
Line Item No	91	17	25	
PO No Supplier Item No Terms				
PO No				

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11/26/2018

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PURCHASE ORDER PO041674

Tel (613) 632-5200

Supplier: ACI001-VC

Acier Ouellette Inc.

935 Boul. Du Havre Valleyfield

J6S 5L1 Canada

Phone: 800 667 4248 Fax: 450 377 5696

PO No:

PO041674

PO Date: Due Date:

11/9/18 11/15/18

Purchase Order

Revision: Revision Date: Ship-To Contact:

Lavoie, ChantalPhone:

clavoie@dartaero.com

1270 Aberdeen Street

Hawkesbury

ON

Ship To:

K6A 1K7 Canada Phone: 613-632-5200 Via:

Pymt Terms:

Ground Net 30

Freight Terms:

Special Comments: extra charge for palette

quote no: SOU0144781

Line			Supplier				Due	Order	Received		Unit	Extended
Item	Job	Part	Part No	Description	Status	Account	Date	Quantity		Balance	Price (CAD)	Price
1		M6061T6B1.250X4.500		6061-T6 Bar 1.25 X 4.50 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS- 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Part of the latest and the latest an		11/9/18	12 ft	Oft	12 ft	\$34.791666/ft	\$417.50
2		M6061T6B1.750X1.750		6061T6 Bar 1.750 X 1.750 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed		11/15/18	12 ft	Oft	12 ft	\$14.246666/ft	\$170.96
41		M6061T6B0.375X1.000		6061T6 Bar .375 X 1.00 MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 DR ASTM B211 OR ASTM B221 eceive ft	Firmed		11/15/18	20 ft	20st	20 ft Al	\$1.575/ft	\$31.50



PURCHASE ORDER PO041674

Tel (613) 632-5200

				R	ems	,						
Line	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity		Unit Price (CAD)	Extended Price
A		M6061T6B0.750X06.000		6061T6 Bar .750 X 6.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		-	11/15/18	24 ft	0 th		\$20.355/h	\$488.5
5 Ad		M6061T6B1.000X1.000	12	6061T6 Bar 1.000 X 1.000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS- 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed		11/15/18	24 ft	0 n 24Ft	i	\$4.1158333/ft	\$98.78
A A		M6061T6B2.000X01.250		6061-T6 Bar 2.00 X 1.25 MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 DR ASTM B211 OR ASTM B221 receive ft	Firmed		11/15/18	36 ft	36.F1		\$10.318/ft 18/11/14	\$371.45
7 At	, n	/6061T6R1.000	F : 1		Firmed -		11/15/18	40 ft	0 n	40 ft AT 18,	\$3.015/M	\$120.60
år År	M	6061T6R1.250	: A A A A A A A B	061-T6 Round Bar 1,250 MATERIAL: 6061- 6/T651/T6510/T6511/T62 LUMINUM ROUND BAR LS PER QQ-A-225/8 OR LS 4117 128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A- 00/8 OR AMS 4160 OR STM B221 OR ASTM 221 secive ft	Firmed -	1	1/15/18	40 ft	40.FT	40 ft A	\$4.697/R	\$187.88

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PURCHASE ORDER PO041674

Tel (613) 632-5200

Line		C.malfan		ems			-	_			
ltem J	ob Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity		Unit Price (CAD)	Extended Price
o de la companya della companya della companya de la companya della companya dell	M6061T6R0.500		6061-T6 Round Bar .500": MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS-4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	-	11/15/18	20 ft	20ft	20 ft	\$0.8085/h AT 18/11,	\$16.1
10	M6061T6R1.875		6061-T6 Round Bar 1.875" : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed		11/15/18	12 ft	Oft	12 ft	\$18.75/ft	\$225.00
11	M6061T6R2.750	i i	6061-T6 Round Bar 2.750" : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM 3221 receive ft	Firmed		11/15/18	20 ft	O ft	20 ft	\$18.75/ft	\$375.00
em Note NO	TE CUT BAR IN SECTI	ON OF 10 FT					Ţ	1			
12	M6061T6S,500	F A A	MATERIAL: 6061-T6/T62 MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR MS-QQ-A-250/11 OR MS 4025 OR AMS 4027 DR ASTM B209 eceive sf	Firmed -	1	11/15/18	16 sf	0 sf 16 sf	16 sf	\$29.8875/sf W / &/ i1 /14	\$478.20
m Note 1 P	CS 48" X 48"										
3	M304R1.000	: S A 3	04 Round Bar 1.00 MATERIAL: AISI 304/316 S ROUND BAR AS PER ISTM A276 NOTE: AISI 03 NOT ACCEPTABLE eceive ft	Firmed -	1	1/15/18	36 ft	on 41.ft		12.654416/ft H 13/11/14	\$455.56 /
Y	M304R0.375	: S A 3	04 Round Bar 0.375 I MATERIAL: AISI 304/316 IS ROUND BAR AS PER ISTM A276 NOTE: AISI 03 NOT ACCEPTABLE Receive ft	Firmed -	1	1/15/18	12 ft	0 ft 12.08D		1.2558333/ft 4 /3/11/M	\$15.07



PURCHASE ORDER PO041674

Tel (613) 632-5200

Line	7		Supplie-		ems							
Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity		Unit Price (CAD)	Extended
15		MT-4140QT-R0.375		AISI 4140 Quenched &Tempered Steel Round Bar 0.375" Dia. : AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	1 3		11/23/18	12 ft				
16 J AT		MT-4140QT-R0.875		AISI 4140 Quenched &Tempered Steel Round Bar 0.875" Dia. : AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed		11/15/18	20 ft	0 ft	20 ft	\$4.2115/ft	\$84.23
ne Item Note	note c	ut bar in section 10 ft	! _ 1]	Ì				İ		
17	N	IT-4140QT-R4.500	: E :: () T F S	AISI 4140 Quenched &Tempered Steel Round Bar 4.500" Dia. MATERIAL: AISI 4140 QUENCHED & TEMPERED STEEL ROUND BAR SPECIFICATION: ASTM 4140 QT or ASTM	Firmed -		11/15/18	5.ft	3.58H	5 ft	\$79.466/ft E/U/IS	\$397.33
18	М	T-1144-R4.000	S R	AISI 1144 Stressproof Round Bar 4.000" MATERIAL: AISI 1144 ETRESSPROOF STEEL ROUND BAR STM A311 or UNS	Firmed -		11/23/18	8 ft	O ft	8 ft	\$98.125/ft	\$785.00
19	M	T-1144-R5.000	R : i S R	ISI 1144 Stressproof ound Bar 5.000" MATERIAL: AISI 1144 TRESSPROOF STEEL OUND BAR STM A311 or UNS 11440	Firmed -	1	1/15/18	4 ft	O ft	4 ft	\$397.1625/ft	\$1,588.65



PURCHASE ORDER PO041674

Tel (613) 632-5200

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity		Unit Price (CAD)	Extended Price
20		MT-4140-S-2.000X4.000		Steel Plate : MAT'L: AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395 receive ft	Firmed	-	11/15/18	8 ft			\$98.125/ft	
21		MT-4140-S-1.500X2.000		4140 Steel Bar 1.500 X 2.000 : MAT'L: AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395 receive ft	Firmed	-	11/15/18	8 ft	0 ft	8 ft	\$48.125/ft	\$385.00
22		MT-A513-T- 5.250W0.375		ASTM A513 Type 5 Alloy Steel Round Tubing 5.250 Dia, 0.375 Wall	Firmed		11/15/18	8 ft	0 ft	8 ft	\$103.75/ft	\$830.00
23		MT-O1-B-0.375X0.500		Tool Steel Bar 0.375" X 0.500"	Firmed	-	11/15/18	6 ft	0 ft	6 ft	\$21.08333/ft	\$126.50
24		MT-O1-R0.375		Tool Steel Round Bar 0.375 dia.	Firmed	-	11/15/18	6 ft	0 ft	6 ft	\$4.866666/ft	\$29.20
25 Ar		M304S11GA	:	304/316 0.125 Sheet MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240	Firmed	1000	11/15/18	32 sf	0 sf 3 25 F		\$15.5375/sf 8/iV/4	\$497.20
26		MT-4140QT-R9.000		AISI 4140 Q&T Round Bar 9.000" Dia.	Firmed		11/15/18	2.25 ft	0 ft	2 ft 5	\$724.60444/ft	\$1,630.36

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

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Grand Total: \$10,97

DELIVERY - CLIENT

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Billed to	Shipped to	Customer Nº	CL T0001056	56	
DART AEROSPACE LTD	Ce	Date	2018/11/09	60	
1270 , ABERDEEN ST. HAWKESBURY, Ontario, KGA 1K7	HAWKESBURY, Ontario, KGA 1K7	Delivery date Your order N°	2018/11/13 041674	1/13	
	Att : LUSSIER Tél.: (613) 632-5200 x 730	Salesman	Josianne Bourdon	Bourdon	
Instruction F-M	Delivery Route 5	Carrier Credit Terme	OUELLETTE Net 30 Days	OUELLETTE VALLEYFIELD Net 30 Days	ELD
Product Description	Weight	PCS NB	In	Internal Use Only	Only
	449	CMD EXP B/0	NI	ISC	TUO
1 FLAT ALU 3/8 X 1 6061-T6 * FAL-381 1 X 20' HEAT: (SXF180947) AY	9.00 20.00 PI_\$CLB	(Jex)			
2 FLAT ALU 3/4 X 6 6061-T6 * FAL-346 2601 2 X 12' HEAT: (18033861B) M	126.89 24.00 PI_\$CLB	(Serve	cut 2 x 30-	>	3281
3 SQUARE ALU 1 6061-T6 * CAL-1 1781 2 X 12' HEAT: SXD180929 A	28.22 24.00 PI_\$CLB	1×13'BC	ent 20'	>	18×1
4 FLAT ALU 1 1/4 X 2 6061-T6 * FAI-1142 2456 3 X 12' HEAT (200247133	105.84 36.00 PI_\$CLB	3x131	man an institution, and a second second and a second		A designation of the second of
5 ROUND ALU 1 6061-76 * RAL-1 2 X 20' HEAT (SXE171894) H	37.00 40.00 PI_\$CLB	Tope Act	The first of Marian States .		T
6 ROUND ALU 1 1/4 6061-T6 * RAL-114 5121 2 X 20' HEAT (SXF162069)	57.64 40.00 PI_\$CLB	2xad			
7 ROUND ALU 1/2 6061-76 * RAL-12 5127 1 X 20' HEAT: \$XD180879 \text{M}	4.62 20.00 PI_\$CLB) <u>E</u>	*		1
8 ALU PLATE 1/2 6061-T651 RANDOM PAL-126061-V 4229 1 PL. 48" X 48" HEAT S38015101	116.00 16.00 PIZ_\$CLB	「女女」	tirk;		ナメナイ

DELIVERY - CLIENT

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Product Description	40	Waight	PCS NB			Intern	Internal Use Only	Unly
	4.3		CMD EXP	B/0	NI	H	S	TUO
SAW CUT		1.00 UN				-	+-	
9 ROUND SS 1 304 (R) RSS-1 3 X 12' R/L HEAT: (H-8421) M	96.12	36.00 PI_\$CLB	11.81x1 1.8131					
10 ROUND SS 3/8 304 (R) RSS-38 5768 1 X 12*R4 HEAT: 43806 M	4.51	12.00 PI_\$CLB	"10KI				1	
11 ROUND 4140 HEAT TREAT 7/8 (R) R4140-78H 4997 1 X 20' R/L TRANSIT ST-JEROME LE 14/11	40.90	20.00 PI_\$CLB		Jex!				
12 ROUND 4140 ANNEALED 4 1/2 (R) R4140-412A 4957 1 X 5' DC TRANSIT ST-JEROME LE 14/11	277.95	5.00 PI_\$CLB		72				
13 SHEET SS 11G SS304-2B (4 X 8) FESS-11G483042B 3402 1 X 4' X 8' HEAT (ATWO50390 M	168.00	32.00 PI2_\$CLB	18 +×1					
14 PALETTE 7573		1.00 UN_\$UN	多女一					
Note: ATTENTION: MILL TEST REQUIS	Total Majorate		AITO . D 400516					
Conditions:	lotal Weight (Lbs)	1 0/2.69	NIK: K-109516-6					

All soid and delivered materials remain the property of "Acier Quellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Quellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Quellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Deliver	2
Verified By:	
Prepared By:	3

Time

Customer's Signature

Date

26/3

FAL-38212



52176 TRA 2714

Global Vietnam GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN WARD, PHU MY TOWN,

BA RIA-VUNG TAU PROVINCE, VIETNAM

Tel: Fax: +84(0)643924954

+84(0)643924953

MILL TEST CERTIFICATE

Date: July 22th, 2018

PO number: P-18239 Shipping Ref No.: 18-1749 LC No.: DC HMN812691 Date of issue: July 18, 2018 Item Code: 1026800 Die Number: D00274

Alloy & Temper: 6061-76

Production Description: ALUMINIUM EXTRUDED PROFILES

Flat Bar .375" x 1" x 240" 6061-T6 D00274

Length (inch); 240

Bundle number: P-18239-206 Heat Number: SXF180947

Date: 01/07/2018

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

Si	Mg	Fe	Cu	Mn	Cn	Cr Zn		Al	0	ther	Damanula	
91	****6		Çu	74.8.83	CI	2,314		AI	All	EACH	TOTAL	Remark:
0.626	0.963	0.240	0.232	0.012	0.058	0.007	0.018	97.745	< 0.05	<0.10	28/06/2018	

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
47.63	45.23	11.8	28/06/2018

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIẾM NGHIỆM CỘNG TY TNHH NHỘM TOÀN CÂU VIỆT NAM **GLOBAL VIETNAM ALUMINIUM** CO., LTD TESTING CENTER

int: SXF180947

DELEASED 2009-05-05

PURCHASE MATERIAL 6061-16/1651/16510/18511/102 ALUMINUM BAR

SPECIFICATION CONTROL DRAWING

C

SPECIFICATION:

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QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

PART NUMBER: M6

M6061T6B T.TTT X WW.WWW

WHERE "T.TT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

MATERIAL: MOGITGBO.35×1.000 DATE: 18/11/14	PO/BATCH NO .: POOY 16 74 5127976
MATERIAL CERT REC'D: Ves QUANTITY RECEIVED: 20 Str QUANTITY REJECTED: 20 Str	THICKNESS ORDERED: 0.375" THICKNESS RECEIVED: 0.375" SHEET SIZE ORDERED: - SHEET SIZE RECEIVED:

DESCRIPTION	(Ch	CR leck (N)	COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	(Y)	N	
CORROSION	Y	W	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(X)	N	ASTM BZLI
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y.	W	
CORRECT REF # TO LINK CERT	V	N	MT: 5XF180947
CORRECT MATERIAL IDENTFICATION	(Y)	N	7,7,7,7,0
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE			
ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN		-	
EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF	MATERIAL A			SS CHECK.	
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: Ar	SIGNED OFF BY:
DATE: 18/11/14	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

FAL-346



Material Test Report

Manifest: 338375

Ticket: 5591267

Our Order: 883748 - 10

Cust P.O.: C75638

Die: ES05873

Part: V836002

Alloy Temper: 6061 T6511 Y Description: .750 x 6.000

Print Date: 4/9/18

P118461 **Chemical Composition Range** 6061 Si Fe CuMn \underline{Cr} Zn Ti OtherEach OtherTotal Mg Min 0.40 0.15 0.8 0.04 0.8 0.7 0.40 0.15 0.35 0.25 0.15 Max 1.2 0.05 0.15

				ical Proper trength ksi	ties		
Sample ID	Cast #	Lot#	Test Date	<u>Ultimate</u> <u>Tensile</u>	Yield 2% offset	Elongation 2" gage length	
78830	(18033861B)	A11	3/27/18	40.13	37.61	18.0	

Applicable Specifications: (ASTMB221)14

AMS-QQ-A200/8A

Country of Origin: ONTARIO, CANADA

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Evan Eng, Quality Assurance Manager

Frot: 18033861B

SPECIFICATION CONTROL DRAWING

RELEASED

B 1 MOVE DQ. 159011 OPTION REFORMATINDITS, ADD CO. 09 07 13

A NEW ISSUE

REV. DESIGN DS DART AEROSPACE LTD

DRAWN

CHECKED

MICL APPR. M6061T6B

SHEET 1 OF 1

M6061T6 BAPR. SCALE

DART APPR. SHEET 1 OF 1

SCALE

DART ABAPR. SHEET 1 OF 1

M6061T6 BAPR. SHEET 1 OF 1

SCALE

DE APPR. SCALE

DART E 09.07.13

PART NUMBER: M606116B T.TTT X WW.WWW

00-A-225/8 OR AMS-00-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QC-A-200/8 OR AMS_DO_A-200/8 (OR AMS 4160)
OR ASTM B211 OR (\$\times\tim

PURCHASE MATERIAL (606) T6/1651/1651/01/65 ALUMINUM BAR

SPECIFICATION:

WHERE "T.TT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

J

MATERIAL: MGG 1 DATE: (8/11/1	T61	80-7	<u>0</u> 000	PO / BATC	н NO.: <u>Рооч</u>	1674/512		
MATERIAL CERT REC'D: 16			тн	THICKNESS ORDERED: 0.750 "				
QUANTITY RECEIVED: 241			_ THI	CKNESS RECE	IVED: 0.75	011		
QUANTITY INSPECTED: 245+		SH	EET SIZE ORDE	RED:				
QUANTITY REJECTED:				SHE	CKNESS RECE EET SIZE ORDE EET SIZE RECE	IVED:		
		CR	Ţ					
DESCRIPTION					COMMEN	TS		
SURFACE DAMAGE	Y	(N)						
CORRECT FINISH	Y	N						
CORROSION	Υ	1						
CORRECT GRAIN DIRECTION	W	N						
CORRECT MATERIAL PER M-DRAWING	X	N	ASTA	1 R221				
CORRECT THICKNESS	8	N						
PHOTO REQUIRED	Y	W						
CORRECT REF # TO LINK CERT	(A)	N	MT: 1	A0 3386 18				
CORRECT MATERIAL IDENTFICATION	B	N						
CORRECT M# ON THE MATERIAL	Y	N						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(N)						
DOES THIS REQUIRE AN								
EXTRUSION REPORT	Y	N						
CUT CAMPLE DIECK	- 0-	***						
CUT SAMPLE PIECE						SS CHECK.		
			HRC	SULTS BELO		DUDD	MEDOTE	
TYPE OF MATERIAL			TING	HRB	DUR A	DUR D	WEBSTER	
SIZE OF TEST SAMPLE				-				
HARDNESS / DUROMETER READI	vig l				-			
		otoro	1 4 17	the Quality Offi				

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

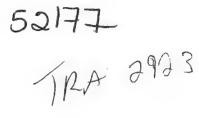
SIGNED OFF BY:

DATE:

INSPECTED BY: ______

DATE: /8/11/14

781





Global Vietnam GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN WARD, PHU MY TOWN,

BA RIA-VUNG TAU PROVINCE, VIETNAM

Tel: +84(0)643924954 Fax:

+84(0)643924953

MILL TEST CERTIFICATE

Date: July 22th, 2018

PO number: P-18239 Shipping Ref No.: 18-1749 LC No.: DC HMN812691 Date of issue: July 18, 2018 Item Code: 1042600 Die Number: D00197 Alloy & Temper: 6061-T6

Production Description: ALUMINIUM EXTRUDED PROFILES

Square Bar 1" x 1" x 20'6061-T6D00197

Length (inch); 240

Bundle number: P-18239-187 Heat Number: SXD180929

Date: 26/06/2018

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

C1	Ma	En	Cu	Mn	Cr	Cr Zn		AI	Other		Domonis		
31	Mg	re	Çu	74811	ÇI	البار ا	11	Al	AI E	Al	EACH	TOTAL	Remark:
0.656	0.986	0.218	0.242	0.015	0.056	0.012	0.021	97.684	<0.05	<0.10	23/06/2018		

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
43.56	39.68	10.6	23/06/2018

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY TNHH NHÔM TOÀN CÂU YIỆT NAM GLOBAL VIETNAM ALUMINIUM CO., LTD TESTING CENTER

: not SXD 180929

DELEASE R 2009 -05- 03

REV B SHEET : OF 1 09 07 13 01 06 03 DART AEROSPACE LTD
HAWKESBURY, ONTARYO, CANADA
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MENTARYON CANADA B REMOVE QUY - 35011 (IPTION REFORMAT NOTES, AUD CAP ASTM BESTIFICE ((2N D7.1) CHECKED
MFG. APPR.
APPROVED
DE APPR.
DO A APPR.
DO A APPR. DESIGN

COPYNGH © 2001 BY CART AEROSPACE LTO

6061-T6 BAR

SPECIFICATION CONTROL DRAWING

20

PURCHASE MATERIAL 6061-TEX 651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

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(0)

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B222

M6061T68 T.TTT X WW.WWW

PART NUMBER;

WHERE "T.TTT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES WIDTH THICK

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

U

MATERIAL: <u>M606</u> DATE: <u>18/11/1</u> 8	176	B1.	1×600 ×600	PO / BATCH	HNO.: 10041	674/5127	
MATERIAL CERT REC'D: Ves			THICKNESS ORDERED: 1 000"				
QUANTITY RECEIVED: 244				HICKNESS RECE			
QUANTITY INSPECTED: 24H			SI	HEET SIZE ORDE	RED:		
QUANTITY REJECTED:			SI	HEET SIZE RECE	IVED:		
DESCRIPTION	(Ch	CR leck (N)		COMMEN	TS		
SURFACE DAMAGE	Y	W					
CORRECT FINISH	(Y)	N					
CORROSION	Y	(1)					
CORRECT GRAIN DIRECTION	V	N					
CORRECT MATERIAL PER M-DRAWING	Y	N	ASTM RIM				
CORRECT THICKNESS	Y	N	FIDIDA BOOK				
PHOTO REQUIRED	Y	N					
CORRECT REF # TO LINK CERT	(Y)	N	MT. SXD180929				
ORRECT MATERIAL IDENTFICATION	(Y)	N	311000				
CORRECT M# ON THE MATERIAL	Y	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	Ž					
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	3					
CUT SAMPLE PIECE	OF	MAAT	CEDIAL AND BREEC	ADM A HADDNE	CC CLIECK		
OOT OANT LE PIECE			ORD RESULTS BEL		35 CHECK.		
			HRC HRB	DURA	DUR D	MEDOTED	
YPE OF MATERIAL		-	TIND	DONA	DOND	WEBSTER	
IZE OF TEST SAMPLE							
ARDNESS / DUROMETER READIN	IG						
		sters	located in the Quality O	ffice			

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

ENGINEERING SIGNOFF (if required)

QC 18 INSPECTION

INSPECTED BY:

DATE: 18/11/14

. 2456

FAL-1142

52197 19909

Bellust

CERTIFIED TEST REPORT

		CUSTOMER PART N	IUMBER:	PRODUCT DESCRIPTION:						
		160001442		1.250 X 2.000 SC RECT BAR						
DER NUMB	ER: LINE ITEM:	SHIP	DATE:	/T NUMBER:	ALLOY:	TEMPER:				
6048080	001	02/23	3/2018	Z00247133	6061	T6511				
WEIGHT SHIPPED:	QUANTITY:	B/L NU	MBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:				
953.000 LB	27.000 P	CS 6219	20			12.000 FT				
SHIP TO:				SOLD TO:						
				1. V						
				1						

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARI	DNESS	CONDUCT.	BEND
Z00247133	0001	0001	44.1	39.0	16.5	RE	93	N/A	N/A
Z00247133	0001	0002	44.3	39.0	16.1	RE	92	N/A	N/A
Z00247133	0001	0003	44.0	38.7	15.7	RE	92	N/A	N/A
200247133	0001	0004	43.9	38.7	17.4	RE	91	N/A	N/A
Z00247133	0001	0005	47.8	43.7	16.4	RE	92	N/A	N/A
Z00247133	0001	0006	47.2	43.0	13.1	RE	92	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Tì	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
108262	. 61	.26	.21	.08	.85	.08	.10	.02	.00	.00	.00	.01	.03

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/8A UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILITZED BY ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

heat! Z00247133

plant Serial: 00323057 Lurder Number: 6048080

Line Item: 001

Page 1 of 2



CERTIFIED TEST REPORT

CERTIFICATION

Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in r's sales acknowledgement form. Any warranty is limited to that shown on s general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Nime & Macnowshi

Plant Serial: 00323057 Order Number: 6048080

Line Item: 001

CERTIFICATION DU MATÉRIEL

CLIENT: SALABERRY-DE-VALLEYFIELD ACIER OUELLETTE INC DIV.DE

935 BOUL DU HAVRE

SALABERRY-DE-VALLEYFIELD, QUEBEC

QC J6S 5L1

NUMÉRO DE COMMANDE:

15032988 000010 ac00019909 10

COMMANDE DU CLIENT: NUMÉRO DE PIÈCES:

2456

NUMERO DE FIECES:

2456

NUMÉRO DE LIVRAISON:

803894666 000010

NUMÉRO D'ARTICLE:

160001442

DESCRIPTION INVENTAIRE:

FLT EXT 6061 T6511 1.25 X 2 X 144

DESCRIPTION ARTICLE FINIS: ALUM Barre PLTE EXT 6061 T6511

1.25po X 2po X 144po

NUMERO (S) DE COULÉE

BRAME / BOBINE / TIN (le cas échéant)

Z00247133

K000768441

CERTIFICATION

Un sondage de nos sources matérielles a indiqué que ni le mercure ni des substances radioactives ne sont introduits dans leurs produits ni ne sont utilisés dans aucun de leurs procédés. Alors que nous ne faisons aucun test indépendant pour le mercure ou la radiation, il n'y a rien dans le système ... "ui pourrait entraîner la contamination de l'un ou l'autre type.

Ce document certifie que le matériel décrit ci-dessus a été expédié conformément à votre commande. Le producteur du matériel a certifié à qu'il a été produit conformément aux spécifications sulvantes:

ASTM B221

Thomas Endres

Vice-président - Approvisionnement

09/24/2018

COPYRIGHT 1991 BY DARTARROSPACE LTD GP 09-07-13 SMEET 1 OF 1 DS 01 06 08 DART AEROSPACE LTD PRAWING NO DRAWING NO 6061-T6 ROUND BAR B FEE DARAT 2NG ADD 82118 B221 SPEC (ZN D8-1), REF PAR 83-020A.
A NUVIS. DESIGN
ORAWN
CHECKED
MFG APPR
APPROVED
OE APPR
DOT 13 REV

REV. B

DATE

PURCHASE MATERIAL (606), T6/T651/T6510/(6511)T62 ALUMINUM ROUND BAR

0

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM 8221.)

M6061T6RID DDD DIA.

PART NUMBER

WHERE "D.DOD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0 625

(8)

SPECIFICATION:

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SPECIFICATION CONTROL DRAWING

DATE: 18/11/1		3).(000801.3	-		PO / BATCH	1 NO.: <u>(1004 1</u>	16/9/51276	
MATERIAL CERT REC'D: Ves QUANTITY RECEIVED: 3644 QUANTITY INSPECTED: 3654			THICKNESS ORDERED: /- Xo" THICKNESS RECEIVED: /- Xo" SHEET SIZE ORDERED: SHEET SIZE RECEIVED:						
DESCRIPTION	(Cr	CR neck (N)				COMMEN	TS		
SURFACE DAMAGE	Υ	(N)							
CORRECT FINISH	de	N							
CORROSION	Y	N							
CORRECT GRAIN DIRECTION	Y	N							
CORRECT MATERIAL PER M-DRAWING	Y	N	ASTM	B221					
CORRECT THICKNESS	8	N							
PHOTO REQUIRED	Y	N							
CORRECT REF # TO LINK CERT	(Y)	N	41:2	002471	33				
CORRECT MATERIAL IDENTFICATION	Ø	N	,						
CORRECT M# ON THE MATERIAL	Y	N							
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	V(I)							
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N							
CUT SAMPLE PIECE						A HARDNE	SS CHECK.		
	F		ORD RES	ULTS BE	LOW				
TYPE OF MATERIAL BIZE OF TEST SAMPLE HARDNESS / DUROMETER READIN	٧G		HRC	HRB		DUR A	DUR D	WEBSTER	
		sters	located in	the Quality	Office				

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SAQ DAS	SIGNED OFF BY:
DATE:	18-11-26.	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,

BA RIA VUNG TAU PROVINCE, VIETNAM

+84(0)643924954 Tel:

+84(0)643924953 Fax:

Date: October 29, 2017

PO number: 17-P-565 Shipping Ref No.: 17-2134 LC No.: DC HMN714345

Date of issue: October 24, 2017.

Item Code: 1043003 Die Number: D00004 Alloy & Temper: 6061-T6

Production Description: CUSTOM ALUMINIUM EXTRUSION

Round Bar 1"x 20' 6061-T6

Length (inch): 240

Unit weight (kg/meter): 1.368

Bundle number: 17-P-565-043,17-P-565-042,17-P-565-041,17-P-565-040

Heat Number: SXE171894

Date: 05/10/2017

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

Si	Mg	Fe	Cu	Mn	Cr	Zn	Tì	Al	EACH	ther TOTAL	Remark:
0.662	0.964	0.232	0.247	0.024	0.082	0.009	0.019	97.664	<0.05	<0.10	03/10/2017

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
41.7	36.8	12,3	03/10/2017

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY TNHH NHÔM TOÀN CẦU VIỆT NAM GLOBAL VIETNAM ALUMINIUM CO. LTD TESTING CENTER

ent: SXE 171894

RELEASED 2008 -09-09

CP 09 07 13 B REFORMATONG ADD 87:18 8221 SPEC (2N D&+1)

REF PAGA 9,000A

A MAW ISS

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SCALE NES

SHEET 1 OF

COPYRIGHT & 2001 BY DAM! AFROSPACE LTD 6061-T6 ROUND BAR

05 0108 00 HY DATE DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWRING NO.
M6061T6R

DESIGN

∢

CHECKED WING APPR APPROVED APPROVED DE APPR

EG. 5/8" ROUND BAR = M606176R0.625

WHERE "D.DDD" = DIAMETER IN INCHES

M6061T6RID.DDD DIA.

PART NUMBER <

SPECIFICATION

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4116/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221)

PURCHASE MATERIAL 6061-T6) 651/T6510/T651/T62 ALUMINUM ROUND BAR

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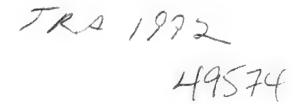
SPECIFICATION CONTROL DRAWING

OL;

MATERIAL: <u>M606</u> DATE: /3/1/		RL	<u>w</u>		PO / BATCH	HNO.: 1004	11674/512
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	(3			THICK	KNESS ORDE INESS RECE T SIZE ORDE T SIZE RECE	IVED: 1.03	
DESCRIPTION	(Ch	CR leck (N)			COMMEN	TS	
SURFACE DAMAGE	X	(N)					
CORRECT FINISH	Q	N					
CORROSION	Y	N					
CORRECT GRAIN DIRECTION	(Y)	N					
CORRECT MATERIAL PER M-DRAWING	Ÿ	N	ASTM B.	221			
CORRECT THICKNESS	(Y)	N					
PHOTO REQUIRED	Y.	(N)				_	
CORRECT REF # TO LINK CERT	X	N	HI SXEI	7/894			
CORRECT MATERIAL IDENTFICATION	(X)	N					
CORRECT M# ON THE MATERIAL	Y	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(Z)					
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	M					
CUT SAMPLE PIECE		RECC	RD RESULTS	BELOW		SS CHECK.	
TYPE OF MATERIAL SIZE OF TEST SAMPLE	١G		HRC H	HRB	DUR A	DUR D	WEBSTER

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY:
DATE: 18/11/15	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in





1 1

Storbit VISTORE GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: My Xuan B1-Conac industrial zone, My Xuan town, Tan Thanh district,

Ba Ria-Vung Tau province, Viet Nam

Tel: +84(0)643924954 184(0)643924953 Fax:

MILL TEST CERTIFICATE

Date: January 19, 2017

PO number: 16-P-421 Customer PO: Inventory Shipping Ref No.: 17-0046 LC No.: DC HMN710232 Date of issue: January 18, 2017

Item Code: 1043103 Die Number: 1200005 Alloy & Temper: 6061-To

Production Description: Round Bar 1.25"x 20' 6061-T6 D00005

Longth (inch): 140

Bundle number 16-P-421-090,16-P-421-091,16-P-421-092,16-P-421-093,16-P-421-094 Hent Number 5XF162069

Date: 10/01/2017

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

SI	Mg	Γe	Cu	Mu	Cr	Zn	TI	Al	RACH	TOTAL	Romarke
0.637	0.921	B.230	0.243	0.022	0.087	0.012	0.019	98.737	<0.05	<0.10	07/01/2017

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strongth (ksi)	Elougation % LN 2"	Romarki
39.;	36.2	10.8	07/01/2017

All profiles, the it profile with each MTC, showing material shipped match aluminium alloy as per standard, with chemical analysis and mechanical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Ounlify Manager

reat: SXF162069

RELEASED

SPECIFICATION CONTROL DRAWING

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B227

WHERE "D.DDD" = DIAMETER IN INCHES EG. 5/8" ROUND BAR = M6061T6R0.625

M606116RID DDD DtA.

PART NUMBER

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PURCHASE MATERIAL 6061-Tengs1/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION.

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(B)

PRAVNIKG NO. MEN' ONTARO CANDA REV. B M6061T6R CP 0907 15 01 06 08 DA 4 DART AEROSPACE LTD SG REFORMAT VG ADO 82"18 921 87EC (2N D8-")

A N(W) 15" DESIGN

44

COPPRIOR L'INTER DANTARROSPACEIL ID 6061-T6 ROUND BAR

SCALE

CHECKED

CHECKED

MEG APPR

APPROVED

DE APPR

DATE

09.07.13

MATERIAL: MGD6 DATE: 18/11		R (-	250	-	P	O / BATCH	1 NO.: <u>Pool</u>	1674/512
MATERIAL CERT REC'D: 4044 QUANTITY INSPECTED: 4044				TH.	HICKNE	SS ORDE SS RECE IZE ORDE	IVED: (. 25	
QUANTITY REJECTED:				. S⊦	IEET SI	ZE RECE	IVED:	
DESCRIPTION	(Ch	CR eck (N)			C	OMMEN	TS	
SURFACE DAMAGE	Y	W						
CORRECT FINISH	V	N						
CORROSION	Y	N		-				
CORRECT GRAIN DIRECTION	X)	N						
CORRECT MATERIAL PER M-DRAWING	Y	N	ASTA	1 RUI				
CORRECT THICKNESS	(Y)	N						
PHOTO REQUIRED	Y	(I)						
CORRECT REF # TO LINK CERT	X	N	HT:	SXF 1620	64			
ORRECT MATERIAL IDENTFICATION	Y	N						
CORRECT M# ON THE MATERIAL	Y	N						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	2						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(N)						
CUT SAMPLE PIECE				ND PREFO		HARDNE	SS CHECK.	
			HRC	HRB		UR A	DUR D	WEBSTER
YPE OF MATERIAL								14200121
IZE OF TEST SAMPLE								<u> </u>
ARDNESS / DUROMETER READIN	NG							-

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION ENGINEERING SIGNOFF (if required)

INSPECTED BY: SIGNED OFF BY: DATE:

RAL-12



00V-51507 20035 52385

Global Vietnam GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN WARD, PHU MY TOWN,

BA RIA-VUNG TAU PROVINCE VIBTNAM

Tel:

+84(0)643924954

Fax:

+84(0)643924953

MILL TEST CERTIFICATE

Date: July 30th, 2018

PO number: 18-P-201M-2 Shipping Ref No.: 18-1785 LC No.: DC HMN812752 Date of issue: July 23, 2018 Item Code: EX130014 Die Number: D00324 Alloy & Tempor: 6061-T6

Production Description: ALUMINIUM EXTRUDED PROFILES

ROD 0.5 240" 6061-T6

Length (inch); 240

Bundle number: 18-P-201M-2-042,18-P-201M-2-028

Heat Number (SXD180879)

Date: 30/06/2018

Applicable Specifications: ASTM B22 STANDARDS

CHEMICAL ANALYSIS: %

Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	Àì	O EACH	ther TOTAL	Remark:
0.624	0.981	0,230	0.245	0.011	0.072	0.084	0.016	97.636	<0.05	<0.10	27/06/2018

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:		
41,32	38.56	11.6	27/06/2018		

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIẾM NGHIỆM CÔNG TY TNHH NHÓM TOÀN CÂU YIỆT NAM GLOBAL YIETNAM ALDMINIUM CO., LTD TESTING CENTER

heat: SXD 180879

RELEASED 2009 -09-09

DS OF OB DART AEROSPACE LTD
HAWKE SURY, O'TTARO, CANADA
DRAWING NO.
R
M6061T6R REF ORMAT DWN; ADD B2-18.B221.SPEC (ZN D8-1)

A NEW SS. DESIGN

6061-T6 ROUND BAR DRAWN
CHECKED
MFG APPR.
APPROVED
DE APPR
DATE
09.07 13

REV. B

SHEET 1 OF 1

PURCHASE MATERIAL 6061-16/7551/16510/16511/162 ALUMINUM ROUND BAR

SPECIFICATION CONTROL DRAWING

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221)

M6061T6RID.DDD

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

SPECIFICATION. (é.

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∢(

PART NUMBER:

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MATERIAL: M6061 DATE: 18/14	T6	Ro.	500	PO / BATCH NO.: (2041674/51)					
MATERIAL CERT REC'D: 1/8			TH						
QUANTITY RECEIVED: JOH									
QUANTITY INSPECTED: 205+				SHEET SIZE ORDERED:					
QUANTITY REJECTED: <u>Ø</u>			SH	EET SIZE RECE	IVED:				
DESCRIPTION	(Ch	CR eck		COMMEN	ITS				
011051050111105		N)							
SURFACE DAMAGE	Y	W		"					
CORRECT FINISH	8	N							
CORROSION CORRECT GRAIN DIRECTION	Y W	(<u>N</u>)							
CORRECT MATERIAL PER M-DRAWING	Y	N	Asam and						
CORRECT THICKNESS	(Y)	N	ASTM RUI						
PHOTO REQUIRED	Y	N							
CORRECT REF # TO LINK CERT	Ø	N	MT. SXD 180879						
ORRECT MATERIAL IDENTFICATION	N	N	PI 1. SAD 180817						
CORRECT M# ON THE MATERIAL	(A)	N							
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	Z Z							
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	3	***						
CUT SAMPLE PIECE			ERIAL AND PREFOR		SS CHECK.				
			RC HRB	DURA	DUR D	WEBSTER			
YPE OF MATERIAL						TILDO I LIN			
ZE OF TEST SAMPLE									
ARDNESS / DUROMETER READIN						-			

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY:
DATE: /8/11/15	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

PAL-12486061

TRA 2485 51722

MILL TEST	No:	8491	CERTIFIED SRAC-IQNM	vimetco
CERTIFICATE	Date:	3/19/2018	150 0001/2014 No.10/vell6 2030	BLATINA

CONTRACT/ORDER: 2231 BILL OF DELIVERY : 80354633 TRUCK/CONTAINER: TTNU 4403450

MATERIAL ALLOY

: ALDMINIUM PLATES

: (8081) LOT/DIMENSIONS (mm): 70191778

0.5"THX48.5"WDX144.5"LT

TEMPER: (1851

Specified value						KSI KSI			YTS Elong.% KSI 50mm		
							35		- 1	9	
OT / BATCH CASE NET WEIGHT		bs							M M		
608481;608487 4,638.630			1			39.4 39		19.5 20.5		HO 100	
MICAL A	NALYSIS	%		<u>_</u>							
	A	Mn	Mg	Cr	NI	Zn	TI	Ga	V	Al	
Fe	Cu	44114	9								1
Fe	0.26	0.14	1.02	0.18	0.016	0.13	0.02	0,012	0.016	REM. REM	
	-			-		0.13	0.02	0.012	0.016	REM	
	80848	3 CASE 808481;608467	Specifie CASE NET W 808481;608487	Specified valu CASE NET WEIGHT 808481;608487 4,638.630	Specified values: CASE NET WEIGHT Ibs 808481;608487 4,638.630	Specified values: 42 42 42 42 4538.630 46 46 46 46 46 46 46 4	NET WEIGHT DS Meas CASE NET WEIGHT DS Meas 08491;608467 4,638.630 46	KSI KSI KSI	Specified values: KSI KSI	Specified values: KSI KSI 50n min. max. min. min. max. min. max. min. max. min. max. min. max. min. max. min. min. max. min. max. min. min. min. min. min. min. min. min	NSI KSI 50mm min. max. min. max. min. min

REMARKS:

ACCORDING TO: ASTM 8209:2014; AMS 4027N:2008; ANSI H35.2:2017; ASME 88209:2018; AME-QQ-A-250/11:1097 We hareby confly that the material detailed hereon has been preduced and based according to the requirements of the relevant standards, specification and/or order. Keep in dry conditions, without large temperatures vertations. The differences between metal and air martinot exceed 11 °C. Please follow to recommendations of the Alumbiant Association Guide for misimizing water staining, fatest edition, for the unloading and storage of the material in your premises before usage. Alow we cortly that ALRO products complies with REACH legislation no. 1972/2008 on counting the Registration, Evaluation, Authorization and Restriction of Chemicals and CLP legislation no. 1272/2008 on classification, labeling and suckepting of subtances and mistures.

According to

EN 10204:2004 3.1

QUALITY CONTROL DEPT.

Marius Olisanu, Eng.

9 C ALRO 8A SLATINA
Punct de fuoru Sistina
8tr. Miloov Nr. 1, Jud. Qui
Serv. inapeogla Califâții

ALRO 3.A. No.118, Pitreti Street Phone: +(40) 0249 435 117; 0249 432 658 straggalro.ro Fax: (40) 0249 411 487; 0249 416 892 www.siro.ro 230048-Sieline-ROMANIA

cod f1/PO-051/Rev.4/2012

Juat: \$38015101

SPECIFICATION CONTROL DRAWING

0

PURCHASE MATERIAL 609 TETTE ALUMINUM SHEET OR PLATE SPECIFICATION: 0

QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS-4025 OR 4027 OR ASTM B209.

M6061T6S XXX X W.WWWW

PART NUMBER:

0

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WHERE "XXX" = THICKNESS (IN INCHES) AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M606116S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M606116S.500X3.500

XXX BY 4FT BY 8FT FOR SHEET PREFERRED SIZE:

DART AEROSPACE LTD
ML HAWKESBURY, ONTARIO, CANADA
NO DRAWING NO.
JES M6061T6S SHEET 1 OF 1
HS TITLE
CP 47 6061-T6 SHEET/PLATE SPEC NIS 17,12 13 CP 09 07 13 RF 010608 DATE W B REF ORMAT DWG, ADD 6209 SPEC (ZN D8-1) C ADD PLATE AND T851 SPEC MFG APPR CHECKED DESIGN DRAWN APPROVED

OPVRIGHT : 201 BY DART AFRCSPACHTT

17.12.13

APPROVED

DATE A

Course of the first war and the second second 2018 MAR 13 40 En 18-655

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MATERIAL: <u>M606</u> DATE: <u>/8/11</u>			PO/BATCH NO.: PUO41674/512798
MATERIAL CERT REC'D: 65 QUANTITY RECEIVED: 165 QUANTITY REJECTED: 0			THICKNESS ORDERED: 0-500" THICKNESS RECEIVED: 0-500" SHEET SIZE ORDERED: 4ft x 4ft SHEET SIZE RECEIVED: 4ft x 4ft
DESCRIPTION	(Ch	CR leck N)	COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	W	N	
CORROSION	Y	(1)	
CORRECT GRAIN DIRECTION	9	N	
CORRECT MATERIAL PER M-DRAWING	8	N	457 pm 13204
CORRECT THICKNESS	B	N	
PHOTO REQUIRED	Y	3	
CORRECT REF # TO LINK CERT	8	N	HT: 538015101
DRRECT MATERIAL IDENTFICATION	D	Ν	
CORRECT M# ON THE MATERIAL	(A)	Ν	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	W	
CUT SAMPLE PIECE		MAT	TERIAL AND PREFORM A HARDNESS CHECK. DRD RESULTS BELOW
		1	APC HOP DUDA DUDA MESOTED

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.						
F	RECORD RES	ULTS BELOV	V			
TYPE OF MATERIAL SIZE OF TEST SAMPLE	HRC	HRB	DUR A	DUR D	WEBSTER	
HARDNESS / DUROMETER READING						

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: A	SIGNED OFF BY:
DATE: /8//1/15	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

HEO WIRE: 2015 CERTIFICATE Mr. of MIRPHANE

ÀDAL OFFICE IN SIRM SAGAR, IN S. PATRAD MARIS, MARIS OR OFF, DIDIA

Tel.: 91-22-66270600, Part: 91-22-46290033/34

Website : www.chandansizet.net gmetl : cst@chandamsterLort

1/c. No.: L/c. Date: WORKS PLOT NO. 31 TO 36 45,46,46, & 497,142

(EXP. ARRA)GIDE, UMBERENGAON & BURVEY NO, MIZE & S,VILLAGE,

DESIANI, TAKINA-INGERGAON, DISTIVALBAD, GUJARAT-196171

GSTIN - SIA AACOSTURIZG

F860(824) QC 09/00/11.01.2018

19493 52039

MILL TEST /INSPECTION CERTIFICATE 3.1

ACCORDING TO EN 10204 : 2005

Test Certificate No.

: EXP/00313-07/2018-2019

Date of Issue

: 30.06.2018

P.O. No.

: MN6118

							SC_No. 4: Invoice N			18-19/0047, Dt.04.03.2018 EXP/00313/2018-19 Dt.30.06.2018 Net Wt.		
		PROD	UCT DES	CRIPTION	I			LENGTI	H .	N	a Wt.	
		STAINLES	SS STEBL	ROUND B	ARS		On	lated	Actual		7984 Lbs	
							12'	-16	12' - 14'		7300 000	
Heat I	Vo.	4-5	ade ISI		lize Inches	Tole	rance		Process			
CH-8	21	(31	OGT.		1°	1	19	Ele	ectric Meiting, Continuo		aing,	
				CHI	EMICAL CO	OMPOSIT	ION (Weig	ght %)				
	C	Sį	Mn	P	S	Cr	Mo	M	Cts	'1'3	N	
Min.	-	-	-	2.00 0.045 0.030		18.00	•	8.00 -	•		**	
Max.	0.030	1.00	2.00			20.00	20.00 -	12.00	12.00 -		-	
Results	0.027	0.40			18.14	-	8.01					
			ICAL PROPERTIES									
Specified Value	pecified Yield Strength Tensile Strength		Elongation %		Reduction of Area %		Hardness (HB)					
Min			45	3	0		40	-				
Max.		-			-				*			
Results	•	322		6	42	4	4		67	202-205		
emarks					٠.							

L Cold drawn & Centreless Ground.

2. Solution annealed at 1050 °C.

- 3. PMI test done 100% & found Satisfactory.
- 4. Material is free from radio-active contamination.
- 5. Inter-Granular Corresion Test as per ASTM A262 15 (Pr.E) satisfactory.
- 6. The material hardness is in Accordance with NACE MR 0175/ISO 15156-1:2015 and NACE MR 0103-2007.
- 7. The material conforms to ASTM A276/A276M-17,A182/A162M-17, A479/A479M-17 & ASME SA 479/SA479 M-2015 Specifications.
- 8. Location of sample Off Centre, Direction Longitudinal, Test Temp Room Temp., Shape of Test Piece Round.
- 9. Marking details Company Logo, Size, Grade & Heat No.
- 10. The material is manufactured/melt in Chanden Steel Mill and le of Indian Origin.
- 11. No welding/weld repairs was performed on this material.

BUNDLE NO.:

11 to 13, 29 to 31

BALFIRLA MANAGEN - QUALITY ASSURANCE

It is hereby certified that the above results are true and correct in every details and are meeting the requirements of sportficetion & purchase order.

REV. B AJS 08.03.03 BY DATE SHEET 1 OF 1 CP 09 07 .: 304/316 ROUND BAR
COPPUDITION OF THE STAN A EROSPACE LTD DART AEROSPACE ITD HAWKESBURY, ONTARIO, CANADA BRAVING NO. B REFORMAT TO SEEN DO 1) DESCRIPTION - M304R A NEW ISSUE

PURCHASE MATERIAL: AISI (30) 4316 SS ROUND BAR (NOTE: AISI 303 NOT ACCEPTABLE)

SPECIFICATION CONTROL DRAWING

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SPECIFICATION PART NUMBER

(e)

M304R D DDD ASTM A276

WHERE "D.DDD" = DIAMETER IN INCHES

EG 0 75" ROUND BAR = M304R0 750

U

MATERIAL CERT RECT: Hs QUANTITY RECEIVED: UIF QUANTITY INSPECTED: UIF QUANTITY REJECTED: SHEET SIZE ORDERED: SHEET SIZE RECEIVED: DESCRIPTION (Check Y/N) SURFACE DAMAGE Y N CORRECT FINISH N N CORRECT FINISH N N CORRECT GRAIN DIRECTION N CORRECT GRAIN DIRECTION N CORRECT HICKNESS N PHOTO REQUIRED Y N CORRECT HEF #TO LINK CERT N CORRECT MATERIAL DEN FORWING N CORRECT MATERIAL REQUIRE ENGINEERING SIGN OFF Y DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF Y DOES THIS REQUIRE AND EXTRACTION N CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW HRC HRB DUR A DUR D WEBSTER TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING IESTERS INCIDENT OF MATERIAL INCIDENT SIZE OF MATERIAL THICKNESS RECEIVED: 1.000." SHEET SIZE ORDERED: 1.000." THICKNESS RECEIVED: 1.000." THICKNESS RECEIVED: 1.000." SHEET SIZE ORDERED: 1.000." THICKNESS RECEIVED: 1.000." SHEET SIZE ORDERED: 1.000." THICKNESS RECEIVED: 1.0	MATERIAL: <u>M304 R</u> DATE: <u>(8/11/1</u>)		0			PO / BATCH	1 NO.: <u>Pout</u>	1674/512
QUANTITY INSPECTED: UFF QUANTITY REJECTED: SHEET SIZE RECEIVED: DESCRIPTION (Check (Check (Vin))) SURFACE DAMAGE Y (V) CORRECT FINISH W N CORRECT GRAIN DIRECTION W N CORRECT MATERIAL PER M-DRAWING W N CORRECT MATERIAL PER M-DRAWING W N CORRECT MATERIAL DENTFICATION W N CORRECT MATERIAL REQUIRE ENGINEERING SIGN OFF DOES THIS RAGUIRE AN EXTRUSION REPORT Y N CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING								
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CORRECT REF # TO LINK CERT N N LAT: CAL-842-1 CORRECT MATERIAL IDENTFICATION N N CORRECT M# ON THE MATERIAL N N N DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF Y N DOES THIS REQUIRE AN EXTRUSION REPORT Y N CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW HRC HRB DUR A DUR D WEBSTER TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING								
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CORRECT M# ON THE MATERIAL		- 4		MT: CH	1-8421			
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TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	CUT SAMPLE PIECE						SS CHECK.	
SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING				HRC	HRB	DUR A	DUR D	WEBSTER
HARDNESS / DUROMETER READING								
	HARDNESS / DUROMETER READIN	VG						

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY:
DATE: /8/11/15	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

5768

RSS-38

Fidulity C17259

51864

VIRAJ PROFILES LIMITED

Works: SURVEY NO.- 25/1, 25/2, 26 & 34, Village- MAAN, Taluka- PALGHAR, Dist.- THANE, MAHARASHTRA -401 506, INDIA, e-mail- vielqc@viraj.com

18931

TEST CERTIFICATE

ORDER NO

PACKING LIST NO INSPECTION NO

DATE

64/1015893/37

100007558464

08.12.2016

GRADE

HEAT No

304/304L -

43806

BUNDLE NO: 1100619277,1100619276,1100619275,1100619274,

DESCRIPTION

STAINLESS STEEL BRIGHT BARS

COLD DRAWN POLISHED - 2H

KU31111 to KU31121 PIECES WEIGHT

SIZE SHAPE TOLERANCE LENGTH

3/8" / ROUND ASTM A484 12'-14'

1259

5,700.000 LB

CHEMICAL ANALYSIS

%Co %N2 %Cu %Mo %8 %P %Cr %Ni %C %Mn %Si 0.450 0.160 0.08300 18.220 8.050 0.600 0.0230 1.630 0.270 0.0250 0.0360

TEST RESULTS

0.2% yield strength ksi	Tensile Strength ksi	Elongation %	Reduction Of Area %	Hardness BHN	Grain Size NOS	
93.0	111.0	42.0	73.0	226.0	7.0	

SPECIFICATION:

MATERIAL CONFIRMS TO DIN EN 10088-3:2005; WNR 1.4301/1.4307, EN 10222-5 AND EN 10272 COND-A & ASTM A182/A-182M-15, ASTM A276/A276M-16
COND A, A479/A479M-15 COND A, A193/A193M-12b B8 CL-1, A320/A320M-11a B8 CL-1, A484 16, A388/A388M-05, ASME SA182-14, SA479-TT, SA 193-11 B8 CL-1,
SA320-11 B8 CL-1, A484 16, A388/A388M-05, ASME SA182-14, SA479-TT, SA 193-11 B8 CL-1,
A484 16, A388/A388M-05, ASME SA182-14, SA479-TT, SA 193-11 B8 CL-1,
A484 16, A388/A388M-05, ASME SA182-14, SA479-TT, SA 193-11 B8 CL-1,
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SA479-TT, SA 193-11 B8 CL-1,
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A484 16, A388/A388M-05, ASME SA182-14,
SA479-TT, SA 193-11 B8 CL-1,
A484 16, A388/A388M-05, ASME SA182-14,
SA479-TT, SA 193-11 B8 CL-1,
A484 16, A388/A388M-05, ASME SA182-14,
SA479-TT, SA479-TT, SA479-TT, SA479-TT, SA479-TT, SA479-TT, SA479-TT, SA479-T

REMARKS

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS, MICRO:FREE FROM CONTINOUS CARBIDE NETWORK ON GRAIN BOUNDARIES. MACRO:GOOD, MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C, SOAKING TIME 1/2 HRS, WATER QUENCHED. MELT SOURCE:AOD. WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION.COUNTRY OF ORIGIN: INDIA.

We hereby certify that the material described above has been tested and complies with the terms of order/contract.

WORKS INSPECTOR

heat: 43806

ELEASE

PURCHASE MATERIAL: AISI 303/316 SS ROUND BAR (NOTE: AISI 303 NOT ACCEPTABLE)

SPECIFICATION CONTROL DRAWING

SPECIFICATION: (ASTM A276)
PART NUMBER: M304RIO DDE

<€

M304R D DDD

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 0 75" ROUND BAR = M304R0.750

(J

MATERIAL: <u>M 304K</u> DATE: <u>/8/11/</u>	15	75			PO/BATCH NO.: POULL 74/507						
MATERIAL CERT REC'D: 45 QUANTITY RECEIVED: 11.08 QUANTITY INSPECTED: 12.08 QUANTITY REJECTED: 0					THICK	(NESS RECE	ERED: 0.3 IVED: 0.3 IVED:	75 "			
DESCRIPTION	(Ch	CR neck (N)				COMMEN	TS				
SURFACE DAMAGE	Y	IND									
CORRECT FINISH	V	N					-				
CORROSION	Y	(1)									
CORRECT GRAIN DIRECTION	(1)	N									
CORRECT MATERIAL PER M-DRAWING	8	N	ASTM	A276	,						
CORRECT THICKNESS	8	N									
PHOTO REQUIRED	Υ	N									
CORRECT REF # TO LINK CERT	8	N	417:4	3806							
	(Y)	N									
CORRECT M# ON THE MATERIAL	(Y)	N									
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(3)									
DOES THIS REQUIRE AN	-	(1)									
EXTRUSION REPORT	Y	(N)									
CUT SAMPLE PIECE	OF	MA	ERIAL AN	D PRF	FORM	A HARDNE	SS CHECK				
			ORD RESU				OU OFFICIAL.				
			HRC	HRB		DUR A	DUR D	WEBSTER			
YPE OF MATERIAL	- 1							VILBOILIN			
IZE OF TEST SAMPLE		_						1			
ARDNESS / DUROMETER READIN	ig t										

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION ENGINEERING SIGNOFF (if required)

INSPECTED BY: ______ SIGNED OFF BY: _____

DATE:



ACIER OUELLETTE INC.935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

Copy

CO00120068

1270 ABERDERN ST.	Billed to	Shipped to	Customer N°	CLI0001056
OUELLETTE VALLEYFIELD Net 30 Days Internal Use Only IN I S C	DART AEROSPACE LTD 1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7	1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7	Date Delivery date Your order N°	2018/11/09 2018/11/15 041674
B/O IN I S C			Processed by Salesman	Josianne Bourdon
B/O IN I S C			Carrier Credit Terme	OUELLETTE VALLEYFIELD Net 30 Days
	Product Description	Qty	PCS NB	Internal Use Only
TRANSITSI-JEROME LE 14/11 Heat (MSS997 M 2 ROUND 4140 ANNEALED 4 1/2 (R) R4140-412A 4957 IX 43" DC TRANSITSI-JEROME LE 14/11 Heat : JB443 M Iode: ATTENTION: MILL TEST REQUIS Total Weight (Lbs): 226.01 Onditions: Is do and deficient afterials remain the property of "Acier Ouelette Inc" until payment is made in full, complete and cashed when the unumprise overeigns to respect the relient. The buyer's expense. The warranty offered by clare Ouelette Inc" until payment is and ein full, complete and cashed when the unumprise one cashed the new accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 500 days deministration charges of 2% per month (24% per annum) on all past due amounts over 500 days deministration charges of 2% per month (24% per annum) on all past due amounts over 500 days. Any default in the pashed cannot be returned. All goods soul. All claims must be made thin five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to 25% restocking charge.		20.00	2 6	<i>s</i>
185.11 3.33 PI_\$CLB 1X 43" DC TRANSITEST-JEROME LE 14/11 Heat : \(\text{LBA43} \) \\ \text{M} \) 100te: ATTENTION: MILL TEST REQUIS Total Weight (Lbs): 226.01 Sond tions: Is the same as offered and honored by the manufacturer and his warranty is transferred by "Acter Ouellette Inc." to the client. The buyer hereby accepts to respect the warranty offered by accepts to respect the manufacturer and his warranty is transferred by "Acter Ouellette Inc." to the client. The buyer hereby accepts to respect the warranty offered by accepts to respect the manufacturer and his warranty is transferred by "Acter Ouellette Inc." to the client. The buyer hereby accepts to respect the manufacturer and his warranty is transferred by "Acter Ouellette Inc." to the client. The buyer hereby accepts to respect the manufacturer and his warranty is transferred by "Acter Ouellette Inc." to the client. The buyer hereby accepts to respect the manufacturer and his warranty is transferred by "Acter Ouellette Inc." to the client. The buyer hereby accepts to respect the manufacturer and his warranty is transferred by "Acter Ouellette Inc." to the client of the warranty offered by "Acter Ouellette Inc." to the client of the buyer hereby accepts to respect the manufacturer and his warranty is transferred by "Acter Ouellette Inc." to the client of the warranty offered by "Acter Ouellette Inc." to the client of the warranty offered by "Acter Ouellette Inc." to the client of the manufacturer of 24% per month (24% per month (24% per annum) on all past due amounts over 30 days. Any default in thin for (5) days with this document enclosed. Any merchandes that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a subject to the subject to		****	3 6	
onditions: Total Weight (Lbs): 226.01 NIR: R-109516-6 sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by lake manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to pay administration charges of 2% per manufly (24% per manufly 124%) per manufly 124%, per		3,33		
Total Weight (Lbs) : 226.01 NIR: R-109516-6 Is old ad delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty officed by Acier Ouellette Inc" is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the illowing conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in special past of the repossession of the goods soid. All claims must be made thin in this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to	Note: ATTENTION: MILL TEST REQUIS			
	Onditions: Il sold and delivered materials remain the property of "Acier Ouellette Inc" un Acier Ouellette Inc" is the same as offered and honored by the manufacturer allowing conditions: Net 30 days from billing date and the buyer accepts to paspect with this contract will lead to payment by acceleration and permits to the lithin five (5) days with this document enclosed. Any merchandise that has be 25% restocking charge.	Total Weight (Lbs) : 226.01 till payment is made in full, complete and cashed. All lost materials are at the burand his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer ay administration charges of 2% per month (24% per annum) on all past due an the scaller, at his choice to claim for the balance due or the repossession of the green damaged, cut or modified cannot be returned. All goods returned must be w	NIR: R-109516-6 yer's expense. The warranty offered by r hereby accepts to respect the mounts over 30 days. Any default in oods sold. All claims must be made with our authorization and are subject to	
	Prepared by : Delivered by :	Time	ν = 1 = 0 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1	
Verified by: Delivered by:		Customer's Signature	Date	

24千名

		-			JOE.			EN 10204:2004-0:1	5
Customer		BOL Ship Date	Customer PO	hem	σ	Customer Nem	Nem Description		
	22	224436 30-Jan-2018	B39274	11141 rev 003	003 50	502241	7/8 HR RD 4140/AZMM ZONZIN SBQ QTSF FG MST	SBQ OTSF FG MST	
il bundles listed t	All bundles listed below were produced using steel from Heat MS5997 issued by GERDAU-MONROE and were completed from Ealon Steel Job 808646.	from Heat M55997 Issu	ed by GERDAU-MONRC	E and we	rre completed from	Eaton Steel Job 808640.			
Chemistry	Description		Value	Units	Mechanical	Description		Value	Hoite
S	Carbon		0.41000	PWGT	TENSILE PSI	Tensile Strength in PSI Units	h in PSI Units	Sole	pSI
GW.	Nanganese		0.88000	PMGI	YIELD PSI	Yield Strength in PSI Unite	in PSI Unita		pST
a (Phosphorus		0.01900	PMGT	ELONGATION	Percent Blongation	ion		ភ្ជ
	Sultur		0.01800	PWGT	REDUCTION	Percent Reduction in Area	on in Area		t)
10	Silicon		0.26000	PWGT	BRINELL SURF	Brinell Surface		301.0	BHS
THE STATE OF THE S	Nickel		0.13000	PWGT	Heat Treating	Description		Value	Units
	Caromaum		0.98000	DMG	TEMPER TEMP P	Temper Temp in Fahrenheit	Fahrenheit	500 - 2500	DEGF
14	Molybaenum		0.16000	PWGT	AUSTEN TEMP F	Austenitize Temp in Fahrenheit	p in Fahrenheit	1600 - 1700	DEGF
	AT UMATURE		0.01800	PAG	SR TEMP F	Stress Relief T	Stress Relief Temp in Fahrenheit	500 - 2500	DEGF
22.0	Venedium		0.22000	PWGT	MAGNETISM-HT	Magnetism in Gauss	uss	0 - 20	S
8	Columbium		0.00300	PWGT	TIME AT TEMP	Time at Temperature	ture	Report	٠
2	Nitrogen		0.00300	PWGT	QUENCH MEDIA	Quench Media Requirements	quirementa	P&W/O	٠
5+6	Flement Com Limit		0.00000	154.3	STRESS FREE	Cert stress free	U	CERTIFIED	
DI	Ideal Diameter		6 35000	PMGI	HT4140-420T	Quench & Temper		CONFORMS	
Cleanliness	Description		Value V	NT I	WELL PROCESSING	Description		Vafue	Units
MACRO ETCH	Report macro etch results.	.69.	DOID A	e lle	BOLTEN COUNTRY	merted in Country	ry	USA	·
Geometry	Description		Value	Thirte	PRD SATTO	Deduction barto	£3	USA	·
DIAMETER	Diameter		0.8670 - 0.8830	IN	ASTM Standard	Secription Rectu		59.90	RED
Jominy	Description		Value	Units	A193/193M-01	Grade B7		CONFORMS	Units
71	1/16 inch from Quenched End	End	57	HRC	A434-90a-BC	ASTMA BC Tensil	ASTMA BC Tensile and Yield properties	CONFORMS	
J2	2/16 inch from Quenched End	End	23	HRC	Structure	Description		Value	Units
J3	3/16 inch from Quenched End	8 End	57	HRC	PERCENT IM	Percent Tempered Martensite	d Martensite	80 - 100	PCT
75	4/16 inch from Quenched End	End	57	HRC	MICROSTRUCTURE	Reported Microstructure	tructure	1	
	5/16 Inch from Quenched End	1 End	57	HRC	Tag Number		Oty Units	Length	
177	5/16 inch from Quenched End	End	57	HRC	022-2188194		4025 LBS	20ft	
87	8/16 inch from Quenched End	End	92	HRC					
9£	9/16 inch from Ouenched End	End	35	HRC					
310	10/16 inch from Quenched End	d End	52	MDC					
511	11/16 inch from Quenched End	d End		HRC					
512	12/16 inch from Quenched End	d End	80	MRC					
714	14/16 inch from Quenched	d End	48	HRC					
316	16/16 inch from Quenched End	d End	46	HRC					
318	18/16 inch from Quenched End	d End	45	HRC					
320	20/16 inch from Quenched	d End	44	HRC					
322	22/16 inch from Quenched	d End		HRC					
J24	24/16 inch from Quenched End	d End	42	HRC					
J28	28/16 inch from Quenched End	d End	04	HRC					
J32	32/16 inch from Quenched	d End	38	HRC					
Bundlo tags with Eato	Bundle tags with Eaton Steel identifiers reference the steel grade, heat, purchase order number where applicable, part number, product description and quantity. Material produced in accordance with Eaton Steel's Guality Manual CM-00002 Rev 0 dated 11/2/172013	ide, heal, purchase order num	nber where applicable, part nu	mber, produ	ict description and quant	lity. Material produced in acco	idance with Eaton Steel's Quality Man	ual OM-00002 Rev 0 daled 11/	21/2013.
We hereby	We hereby certify the above to be in conformance, and a frue copy of data represented in company records. This steel was not subject to weld repair or exposed to mercury while in the possession of Eaton Steel.	ance, and a frue copy of c	data represented in compa	any record	s. This steel was not	subject to weld repair or	exposed to mercury while in the p	lossession of Eaton Steel.	
Created on 30-Jan-2018 Marc Benjamin, Cornora	Created on 30-Jan-2018 Marc Benjamin, Cornorate Metallurgist	Thy dictinent was prepared by means of ele	ent was prepared by awans of electronic	3	10221 Cap	10221 Capital Avenue, Oak Park, MI 48237 USA	AI 48237 USA	Tel: 248-398-3434	8-3434
	Porton of Michael Grad				Annahar / Annahar	http://www.natacataci.nm			



GERDAU SPECIAL STEEL NORTH AMERICA 5591 MORRILL ROAD JACKSON, MICHIGAN 49201

CERTIFIED MATERIAL TEST REPORT

CUSTONER ORDER MUNISER CUSTONES PART HUNGER MERT HUNGER MORK ORDER NUMBER DATE 148088 1012470/4140EFVD M55997 291125 101 8/11/14

Danieli Cast

REPORT TO

DAN MCNAUGHTON
EATON STEEL CORPORATION

10221 CAPITAL

OAK PARK , MI 48237

EATON STEEL CORPORATION % VULCAN HEAT TREATING

SKIP TO

10 CROSSCREEK TRAIL

PELHAM , AL 35124

ORDERED SIER LENGTH 20' 2" 7/8" 4140EFVD RND CUSTOMER SPECIFICATIONS ITEM 1012470 REV 1 DTD 3/7/12; A29/A29M-12; A322-07 CHEMICAL ANALYSIS C Mn S Si Ni Cr Mo Cu Sn Al 0.019 0.018 0.26 0.13 0.98 0.16 0.22 0.011 0.018 0.41 0.88 N Nb V 0.003 0.003 0.0065 FINE GRAIN 5-8 GRAIN SIZE SPECIFICATION ASTM E112 HARDENABILITY SPECIFICATION ASTM A255/A304 THEORETICAL J1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32 34 57 57 57 57 57 56 55 54 52 50 48 46 45 44 42 40 DI CALCULATION SPECIFICATION CAT 1E0024 5.26 REDUCTION RATIO SPECIFICATION ITEM 1012470 RATIO= 59.9 TO 1.0 We certify that these data are correct and in compliance with specified requirements. Wash Craig Wendy J. Craig Gerdau Monroe 3000 East Front Street

Monroe, MI 48161

Quality Assurance Representative

CONTINUED ON PAGE 2



GERDAU SPECIAL STEEL NORTH AMERICA 5591 MORRILL ROAD JACKSON, MICHIGAN 49201

CERTIFIED MATERIAL TEST REPORT

DATE HEAT NUMBER NORE ORDER NUMBER CUSTOMER PART NUMBER CUSTOMER ORDER NUMBER 291125 101 M55997 8/11/14 148088 1012470/4140EFVD Danieli Cast

SEPORT TO

DAN MCNAUGHTON EATON STEEL CORPORATION

10221 CAPITAL

OAK PARK , MI 48237

EATON STEEL CORPORATION % VULCAN HEAT TREATING 10 CROSSCREEK TRAIL

SHIP TO

PELHAM , AL 35124

ORDERED

LENGTH Beatte 2" 201 7/8" 4140EFVD CUSTOMER SPECIFICATIONS ITEM 1012470 REV 1 DTD 3/7/12; A29/A29M-12; A322-07

RESIDUAL MAX

SPECIFICATION ITEM 1012470

P+S = 0.0370

RESIDUAL MIN

SPECIFICATION ITEM 1012470

P+S = 0.0370

ASTM E381 MACRO ETCH SATISFACTORY: S1/R1/C1 ** MATERIAL 100% MELTED AND MANUFACTURED IN THE U.S.A. BY THE ELECTRIC ARC FURNACE AND CONTINUOUS CASTING METHOD. THE PRODUCT HAS NOT BEEN REPAIRED BY WELDING AND THIS MATERIAL HAS NOT BEEN EXPOSED TO MERCURY OR TO ANY OTHER METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURES DURING PROCESSING OR WHILE IN OUR POSSESSION. GERDAU MONITORS ALL INCOMING SCRAP AND ALL HEATS OF STEEL TO ENSURE THAT PRODUCTS SHIPPED ARE FREE OF RADIOACTIVE MATERIAL.

PAGE 2 OF 2

We certify that these data are correct and in compliance with specified requirements.

Gerdau Monros

3000 East Front Street

Monroe, MI 48161

1. 1. 1. 1. () Wendy J. Craig

Quality Assurance Representative



Vuican Threaded Products 10 Cross Creek Trail Pelham, AL 35124 Tei (205) 620-5100 Fax (205) 620-5150

JOB MATERIAL CERTIFICATION

Job Information Containers: \$8899057 \$8900817 \$8905945 \$8908239 Job No: 388939

Customer: Eaton Steel Corporation

Customer Part No: 1013442-001

Customer PO No: 148089-765527

Note: W6 76553 Order No: 229406

Certified Date: 10/21/14

20601 Trolley Industrial Ship To: Drive

Taylor, MI 48180

Shipped Qty: 30223 lbs

Line No: 1

Applicable Specifications

Type	Chariffestion	Dow	Amand	Ontion
1 y pc	Specification	MEA	Alliend	Charle
Heat Treat	A434-90a-BC	2009		
	ASTM A193 B7/ASME SA193 B7	2010a		
	Customer Specification			

Test Results

See following pages for tests

	Ŧ	Heat No. M55997	``				Origin: USA		
O	Mn	d	v	Si	ن	Mo	Z	>	Cu
0.410	0.88	0.019	0.018	0.26	0.98	0.16	0.13	0.003	0.22
Al	SIN.	Sn	2	死	Macro S	Macro R	Macro C	10	
0.018	0.003	0.011	0.0065	59.9:1	1	1	1	5.26	
				M	Motor				

Certified Chemical Analysis

Material was manufactured, tested and inspected in accordance with Vulcan Threaded Products Inc. Quality Assurance Program and Manual Rev. A, dated 8/23/11. Processed material is Quenched and Tempered - Stress Free. No weld repair performed on the material. No Mercury used in the production of this malerial. Melted and Manufactured in the USA.

Average Gauss Reading: <15

The microstructure is greater than 80% martensite from surface to the center

Test specimens meet the ASTM A370-12a specifications

Plex 10/21/14 8:06 AM vuic.cnat Page 1 of 2

art 388098



Vulcan Threaded Products 10 Cross Creek Trail Pelham, AL 35124 Tel (205) 620-5100 Fax (205) 620-5150

JOB MATERIAL CERTIFICATION

Certified Date: 10/21/14

Job Information

Job No: 388939

Containers: \$8899057 \$8900817 \$8905945 \$8908239 Part No: HRB 4140 .875x240 Q&T ES Test Results

Note Hardness Test Type T T Center Mardness Surface Hardness 32.2 Midradius Hardness 31.7 55.0 RO ₹ Elongation Gage Length 9 Test No. 30479 Test Quench & Temper Information (Lbs) Test No. 30480 Test: Quench & Temper Physicals (KSI) Yield 0.2% Elongation Offset (%) 19.5 132.5 (ksi) Tensile (ksi) 148.0 Description

81.1 39.50

10/21/14

Note

Quench Water Temp (F)

Run Speed (FUmin)

Tempering Temp (F)

1,304

Quench & Temper Information Results

Description

Nathews, Casie - Lab Secretary

Date

Plex 10/21/14 8:05 AM vulc. cnat Page 2 of 2

MATERIAL: MT-4	1400	27.1	0.375	_		PO / BATC	H NO .: POD41	674/512838
DATE: 18/11/	15							
MATERIAL CERT REC'D: 165					THIC	KNESS ODD	ERED: <u>/).87</u> 9	- (1
QUANTITY RECEIVED: 2012				_			EIVED: 0.87	
				_				>
QUANTITY INSPECTED: 204				_		ET SIZE ORD		
QUANTITY REJECTED:				_	SHE	ET SIZE RECE	EIVED:	
	INC	CR						
DESCRIPTION		neck				COMMEN	ITS	
		(N)				OCIVIIVIE	110	
SURFACE DAMAGE	Y	TN)						
CORRECT FINISH	Y)							
CORROSION	Y	(17)						
CORRECT GRAIN DIRECTION	0	N						
CORRECT MATERIAL PER M-DRAWING	Y	N	457M	A 193				
CORRECT THICKNESS	(Y)	N						
PHOTO REQUIRED	Y	O						
CORRECT REF # TO LINK CERT	8	N	LH: N	15599	7			
CORRECT MATERIAL IDENTFICATION	(8)	N						
CORRECT M# ON THE MATERIAL	Y	N						
DOES THIS MATERIAL REQUIRE								
ENGINEERING SIGN OFF	Υ	N						
DOES THIS REQUIRE AN								
EXTRUSION REPORT	Υ	(N)						
CUT SAMPLE PIECE	OF	ΜΔΤ	EDIAL /	VID DDE	EODI	A A HADDNE	SS CLIECK	
001 01 1111 22 1 1202				SULTS BI			SS CHECK.	
			HRC	HRE		DUR A	DUR D	WEBSTER
TYPE OF MATERIAL				7.11 (1		DOILLY	DONE	WEDS IEK
SIZE OF TEST SAMPLE								
HARDNESS / DUROMETER READIN	VG	*						
	<u>te</u>	sters	located in	the Qualit	/ Offic	e		
						_		
e a meneral								
C 18 INSPECTION						ENGINEE	RING SIGNO	FF (if required)
							1. 1.	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

INSPECTED BY:

DATE:

		•						
	CER	TIFICATI	E OF COMPL	ANCE /	CERTIFICAT	DE CON	IFORMITÉ	
Order No. / N	No. Commande	CUSTO	MER / CLIENT			Packing s	slip / No. d'expédition	DATE
Order No. / N	No. Commande	CUSTO	MER / CLIENT			Packing s	slip / No. d'expédition	DATE
AC000139	52	LES AC	IERS OUELLET	TE INC		L36715	-01	06-03-18
MATERIAL ID# /	No. MATÉRIEL	GRADE / NU	IANCE	HEAT T	REATMENT / TRAITEM	ENT THERMIQ	UE	HEAT / COULÉ
2017-188	32	AISI 41	40 Q.T.S.F	R/TREMPÉ	REVENU - RECU	IT DE DÉTE	NTE (RONDS)	J8443
SHAPE / FORME	E	SIZE / DIME	NSION			SPECIFICA	TIONS	
Round / Ron	d	4.500	" in.	AS.	TM A29-12,A37	0-14,A434	Class BD-06,A1	93B7-14
PAYS D'O	RIGINE:	FRANCE		IMPACT	TEST -40°C: 35,4J	/ 35,2J / 38,	6J -30°C: 44,6J / 44,	2J / 41,2J
977		CH	EMICAL COMP	OSITION	/ ANALYSE CH	IMIQUE		
	Carbon (C)	Silicon (Si)		Manganese	e (Mn)	Phosphorus	(P)
mini/maxi	0.380	0.430	0.150	0.350	0.750	1.000		0.035
nini/maxt 0.380		0.283		0.922		0.012		
	Sulfur (S)	Chromium (C		Cr)	Nickel (Ni)		Molybdenum	(Mo)
		0.040 0.800		1.100	0.000	0.250 0.150		0.250
nini/maxi actuel (%): 0.014			1.057		0.247			
	Copper (Cu	ı)	Vanadium (\	/)	Aluminium	(AI)	Tungsten (T)	
mini/maxi		0.350		Stational State	-	espera-e.		No. or of
nini/maxi ctuel (%): 0.162			0.000	0.025		0.000		
		MECHA	NICAL PROPER	RTIES / P	ROPRIÉTÉS MI	CANIQUI	ES	
rield strength	/ Élasticité	Tensile / ré	sistance à la traction	Elongation	/ allongement (%)	Reduction	-Id/dure surfac	
125,617		143,790		17.3%		54.0%		341 BHN

No weld repairs performed during the manufacturing of this product. We hereby certify that the above results have been verified and conform to the above mentionned specifications. Material is Mercury free, without radioactivity.

Aucune réparation exécutée par soudure durant la fabrication de ce produit. Par la présente nous attestons que les résultats ci-haut mentionnés ont été vérifiés et sont conformes aux spécifications. Pas de contact au Mercure, sans radioactivité.

RUA 4

MATERIAL: <u>MT-4</u> DATE: <u>18/11/1</u>					PO/	BATCH N	10.: <u>PD60</u>	11674/5128
MATERIAL CERT REC'D: 45 QUANTITY RECEIVED: 3-58 QUANTITY INSPECTED: 3.58	_			5		RECEIVE ORDERE		
DESCRIPTION	(Ch	CR neck (N)			CO	MMENTS	;	
SURFACE DAMAGE	Y	ON						
CORRECT FINISH	D	N						
CORROSION	Υ	Ø						
CORRECT GRAIN DIRECTION	(Y)	N						
CORRECT MATERIAL PER M-DRAWING	Y	N	ASIM	A29				
CORRECT THICKNESS	8	N						
PHOTO REQUIRED	Y	(N)	111	100000				
CORRECT REF # TO LINK CERT CORRECT MATERIAL IDENTFICATION	8	N	M: JE	3 443				
CORRECT MATERIAL IDENTIFICATION CORRECT M# ON THE MATERIAL	3	N						
DOES THIS MATERIAL REQUIRE	(Y)	N						
ENGINEERING SIGN OFF	Υ	N						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N						
CUT SAMPLE PIECE			ERIAL AN			RDNESS	CHECK.	
			HRC	HRB	DUI	RAT	DUR D	WEBSTER
YPE OF MATERIAL								7,2001210
IZE OF TEST SAMPLE								
IARDNESS / DUROMETER READIN	IG							
	te:	sters	located in th	e Quality C	Office			
	tes	sters	iocated in th	e Quality C	тісе			

QC 18 INSPECTION	ENGINEERING SIGNOFF (if require	d)
INSPECTED BY: AT	SIGNED OFF BY:	
DATE: 18/11/15	DATE: 22 Hoy 2018	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

3403

51230

《數源正業股份有限公司》 FROCH ENTERPRISE CO., LTD.

检验验明 書 MILL TEST CERTIFICATE

APR 17,2018 F180427039

Date:

Certificate No.

NO.122 INDUSTRIAL ROAD, TOU-LIU CITY.

YUN-LIN 640, TAIWAN T:+886-5-5571670

	NIA			1	1	-	-	-		-		-	Mondonfferently		/			Page: 1 of
EEX20180EE	20.	40496		Contract		No.		-		- 1	No.	1		ASTM A240-13c/A480-14	0-13c/A48	0-14		1
LAZV 10003,	0	010	1	- 1				7	DC HMN810943	510943	***************************************	Spe	Specification					
at.	安中华		-	a		W.		+		免额		级级		数學	邻	液体理 (C)	表面底理	份法
ద	Description		-	tem No.			Size			Type		Heat No.		QTY(PC)	Weight(MT)	Heat Treatment Water Quenched	Finish	Remark
STAINLESS STEEL COLD ROLLED SHEET	COLD RC	LLEDSI	世里		JGAX48	3"X120"	20GAX48"X120" 2B NO PI	P		304	ALC04003	E		78,000	4 000		00	
SPECIFICATION AS PER PO NO.:P-18136	S PER PC	NO.P.	18136		16GA X 48" X 96"	18" X 91	6" 2B PI			304	AIW050575	25		102 000			286	
TOTAL QUANTITY: 19,920MT	:19.920M	-	è	-	14GA X 48" X 96"	18" X 9	6" 2B PI			304	AIV040477	7		39 000			ac	
			_	<u>∓</u>	11GA X 48" X 96"	18" X 91	6" 28 PI	_		304	AIND50390	6		75,000		\$	9	
					GAX48	"X120"	20GAX48"X120" NO 4 RP FI DE	O III O		200	AI COEPA	3		11,000		1	ZB	
					SAXAB	"X420"	18GAX48"X120" NO 4 BD EI DE	O II O	J 11	200	ALE030212	4 5		79.000			NON	
			_	-	CAYAB	WY 06"	46.GAY48"Y 96" NO 4 DD EI DE	20100	1 11	200	ALECODOR S	¥ :		20.000		1	NO.	
			_	_	SON A CA	DE V 0			11 .	304	ALEUSU451	<u>.</u>		66.000		1	NO.	
					SCAXA	2 × 30	TOGAKKAS X 36" NO.4 BP FLPE	1		304	ALE050455	22		41,000	1.427	1	NO.	
A. B.	소	Chamic	Chemical Composition (%)	neition (170									1			7	
-	**	*	4	W.	-	1	1	1			-	1	2	ž z	A Mechanical Les	est		
*	*	‡	¥	*	*	ą	# #	市市	机位张成	中大街点		26				是原以始		
tem No. C Si	Mn	۵	S	გ	2	Mo	z		Tensil (N/mm²)	0.2% Yield (N/mm²)		Elongation Di	Direction	Width of spealmen	Gauge Length	Hardness HRB		
-			-	17.50	8.00				515.00	N	5.00	40.00	ן ב	mm	mm			
Max. 0.070 0.750	50 2.00	0.045	0.030	19.50	10.50	_	0.100									92.00		
0.020	1.18		0.001	18.06	8.02	1	0.036	1	641.00		287.00 5	52.00	1	-	-	84.00		
0.023	0.370 1.21			18.17	8.08	1	0.056	1	647.00		295.00	52.00	1	1	1	86.00		
				18.25	8.05	1	0.047	1	674.00			56.00	1	1	1	84.00		
0.014				18.01	8.01	1	0.050	1	640.00		293.00	50.00	1	1	1	84.00		
0.019				18.07	8.05	1	0.00	1	628.00		306.00	56.00	1	1	1	85.00		
0.023				18.30	8.00	-	0.050	1	670.00			54.00	1	1	1	88.00		
0.019		0.030	0.001	18.28	8.04	1	0.073	1	637.00		319.00	54.00	ı	-	ı	88.00		
0.019	0.390 1.40	0.030	0.001	18.28	8.04	1	0.073	1	639.00			55.00	1	1	1	87.00		·
9000					1	1		_			-	-						
1. The material described herein is certified for no radiation contamination	bed herein i	certified	for no rad	fiation co	nteminati		UC NODC HMN810943	CHMNB	THE FEMALING TO AS I'M AZADIA 480 THE NO.: DE HMN810943	3					APPROVED CERTIFICATES 1 OMS appropriate ISO 9004717	APPROVED CERTIFICATES:	ON North and a 100 a 250	Ē
by original Material Manufacturer. The releases of chemical composition is accoming to ASTM 4480.	Manufactur micel com	If.	acronding	TSA MY	4 4480		PO NO.P	-18136 DES NO	PO NO.:P-18136						2.EMS according	2.EMS according ISO 14001(LR Cert No:0992007)	irt No:0992007)	(7)
3.Visual Inspection (Surface) and Dimension Check Acceptable	urface) and	Dimensio	Check	Acceptat	le		7	N. C.	- 10 mag						4. Lab managem	3.PED (TUV Cart No: 01 202 TWING-06 0145) 4.Lab management system according ISO/IEC	C-06 0145) ng ISO/IEC 17020(3.PED (TUV Cart No: 01 202 TWN/C-06 0145) 4.Lab management system according ISO/IEC 1702D(TAF Cert No:10001)
were nevery carry that material described reterm has been infinitely and (ested with satisfactory results in accordance with the requirement of the above material specification.	sfactory res al specificat	utts in acc	cordance v	with the r	equireme	D H									5.Lab managem	iont system accord	ng ISO/IEC 1702S	TAF Cert No:2271)
																ト	8	
															1	N	N	Lai Yu Lin
						_												

Q-Y-Q-33-07-C

heat AINOSO390

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISK 803/316 SS SHEET ANNEALED

0

SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
OR ASTM AZGO
OR ASME 55240

FINISH

FINISH
UNPOLISHED No. 1
UNPOLISHED No. 2D
UNPOLISHED No. 2B
UNPOLISHED No. 2B
POLISHED No. 3
POLISHED No. 4
BUFFED No. 6
BUFFED No. 6
BUFFED No. 7
BUFFED No. 7
BUFFED No. 7
BUFFED No. 8
BUFFED No. 9
B

U

O

PART NUMBER: M304S TT GA #P

WHERE "TT" = GAUGE THICKNESS WHERE "#P" = FINISH IDENTIFIER EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

ď

| NOM_THICK. THICKNESS | GAUGE | CINJ | COURS
RELEASED 2015 FEB 04 ECN 15-72Z 9

TD COLOR	OSPACE	COPYRIGHT & 2001 BY DARI AEROSPACE LTD	15.01.06	15.0	DATE
NTS		304/316 SS SHEET	1	PR.	DE APPR.
SCALE		TITLE	1/10/19	APPROVED	APPRI
SHEET 1 OF 1	٠,	M304S	7	MFG. APPR.	MFG.
DEV O	And the second	DRAWING NO	ox [KED	CHECKED
٠ د	CANAD	HAWKESBURY, ONTARIO, CANADA	A,S	Z	DRAWN
0	LIZU	DART AFPOSPACE ITD	SG	NS	DESIGN
DATE	BY	DESCRIPTION			REV.
01 09 24	DS	Advisoration designation of the contraction of the	SSUE	NEW ISSUE	*
10 90 60	do	REFORMAT DWG, ADD ASTMASME SPECS (ZN D8-1), ADD GAUGE, REF (C8-1), REF PAR 08-020A	REFORMAT DWG ADD ASTMIASME S GAUGE REF (CB-1), REF PAR 08-020A	GAUG	(C)
12.09.20	MB	DEFINED FINISH OPTION (ZN C8) AND EXAMPLE OF MATERIAL PIN WITH FINISH OTHER THAN 28 (ZN 85).	ED FINISH OPTER	DEFIN	0
15 01.06	AJS		ADDED GAUGES 0-7.	ADDE	

MATERIAL: M3045			PO / BATC	HNO: POA	41674/5127981		
DATE:				_		100	(10/K) 3/2/10-1
				_			
MATERIAL CERT REC'D: Ves				TH	ICKNESS ORDI	EDED. A.	- 1
QUANTITY RECEIVED: 325F							
QUANTITY INSPECTED: 325		-			CKNESS RECE		
					EET SIZE ORDE		
QUANTITY REJECTED: 40				_ SHE	ET SIZE RECE	IVED: 443	-84
		CR					
DESCRIPTION		neck	i		COMMEN	TS	
		N)					
SURFACE DAMAGE		OSP					
CORRECT FINISH	8	N					
CORROSION	Y	0					
CORRECT GRAIN DIRECTION CORRECT MATERIAL PER M-DRAWING	(Y)	N	100	13.7			
CORRECT THICKNESS	X	N	ASTA	1 A240			
PHOTO REQUIRED	(Y) Y	N					
CORRECT REF # TO LINK CERT	Y	N	112	1- :- 3	3		
	8	N	M7. F	4TN0503	10		
CORRECT M# ON THE MATERIAL	Y	N					
DOES THIS MATERIAL REQUIRE	./						
ENGINEERING SIGN OFF	Υ	N					
DOES THIS REQUIRE AN							
EXTRUSION REPORT	Y	N					
CUT SAMPLE PIECE	OF	MAT	ERIAL A	ND PREFOR	M A HARDNE	SS CHECK.	
	F			SULTS BELOV	N		
TYPE OF MATERIAL	-	- 1	HRC	HRB	DUR A	DUR D	WEBSTER
SIZE OF TEST SAMPLE	-						
HARDNESS / DUROMETER READIN	G						
DETERMINE TEXT READING		etore	located in	the Quality Office			
	10.	310/3	iocateu III	the Quanty Offic	ce		
C 18 INSPECTION					ENGINEER	ING SIGNOF	F (if required)
1=							· (ii required)
INSPECTED BY:				SIGN	NED OFF BY:		
DATE: /8/11/15	_						
DATE: /0/11//3					DATE:		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in